

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	((("5858022") or ("6068787") or ("6743078") or ("5377705") or ("5944996") or ("6871656") or ("6521466") or ("6306564"))).PN.	USPAT	OR	OFF	2005/03/31 10:57
L2	0	((SCCO2 or (supercritical adj carbon adj dioxide) or (supercritical adj CO2) or (super adj critical adj carbon adj dioxide) or (densified adj carbon adj dioxide)) and (supercritical or (densified adj fluid) or (dense adj phase adj fluid)) and ((hydrogen adj fluoride) or (hydrofluoric adj acid) or (ammonium adj fluoride) or (alkyl adj hydrogen adj fluoride) or (trihydrogen adj fluoride) or (triethylamine adj trihydrogen adj fluoride) or (ammonium adj fluoride)) and ((triethylamine adj trihydrogen adj fluoride)) and ((ammonium adj fluoride)) and ((preferred adj cosolvents) or pyrrolidone or NMP or DMSO or sulfolane or catechol or (ethyl adj lactate) or acetone or (butyl adj carbitol) or monoethanolamine or (butyrol adj lactone) or (diglycol adj amine) or butyrolactone or (butylene adj carbonate) or (ethylene adj carbonate)) and ((preferred adj alcohols) or methanol or ethanol or (isopropyl adj alcohol) or IPA or isopropanol) and ((most adj preferred adj cosolvent) or pyrrolidone) and ((most adj preferred adj alcohols) or ethanol or isopropanol or (isopropyl adj alcohol)) and ((boric adj acid) or boric or borate) and ((claimed adj surfactant) or surfactant or nonionic or non-ionic) and ((claimed adj pressure adj range) or psi or PSI or pressure or (pressure adj range) or (range adj of adj pressure)) and ((claimed adj temperature adj range) or temperature or (temperature adj range) or (range adj of adj temperature)) and ((primary-secondary adj amines) or hydroxylamine or ammonia or (ammonium adj hydroxide) or alkylamine or (alkyl adj amine) or (dialkyl adj amine) or dialkylamine))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/31 10:58
S1	671675	((first adj cleaning adj component) or (formic adj acid) or (acetic adj acid) or (propionic adj acid) or (butyric adj acid) or (valeric adj acid) or (benzoic adj acid) or (isobutyric adj acid) or (isovaleric adj acid) or (pivalic adj acid) or (caproic adj acid) or phenol or (organosulfonic adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/19 15:36
S2	434731	((second adj cleaning adj component) or (lactic adj acid) or (citric adj acid) or (tartaric adj acid) or (glycolic adj acid) or (glyceric adj acid) or (oxalic adj acid) or (malonic adj acid) or (succinic adj acid) or (glutaric adj acid) or (adipic adj acid) or (maleic adj acid) or (fumaric adj acid) or (phthalic adj acid) or (isophthalic adj acid) or (terephthalic adj acid) or (methylmalonic adj acid) or (dimethylmalonic adj acid) or (citramalic adj acid) or (oxalacetic adj acid) or (acetoacetic adj acid) or (salicylic adj acid) or (pyruvic adj acid) or ("alpha.-ketoglutamic" adj acid) or (organo-polysulfonic adj acid) or (ethylenediaminetetraacetic adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/19 15:37
S3	4919819	semiconductor or photoresist or circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/19 15:37
S4	39	((("5977041") or ("6419755") or ("6231678") or ("4623399") or ("6310020") or ("5221362") or ("5093140") or ("Re31779") or ("4828912") or ("6410494") or ("6514921") or ("4084747") or ("5234703") or ("5073622") or ("4855069") or ("5364650") or ("4209418") or ("6143705") or ("5143720") or ("5078967") or ("4975217") or ("5512309") or ("5460802") or ("4810405") or ("5294364") or ("6010729") or ("5558109") or ("6113963") or ("5718910") or ("5234719") or ("4276185") or ("4395304") or ("6749869") or ("6096266") or ("4330531") or ("5290361") or ("5641530") or ("5635104") or ("4478683"))).PN.	USPAT	OR	OFF	2005/03/19 15:37
S5	57254	S1 same S2	USPAT	OR	OFF	2005/03/19 15:38
S6	28	S4 and S5	USPAT	OR	OFF	2005/03/19 15:38
S7	8	S6 and S3	USPAT	OR	OFF	2005/03/19 15:39
S8	4486	S5 and S3	USPAT	OR	OFF	2005/03/19 15:39
S9	647	S8 and (acetic same lactic)	USPAT	OR	OFF	2005/03/19 15:40

S10	112	S9 and acetic.clm,ab,ti. and lactic.clm,ab,ti.	USPAT	OR	OFF	2005/03/19 15:40
S11	76	S10 and (cleaning or clean or washing or wash or "S10"/\$.cds. or "134"/\$.cds. or "438"/\$.cds. or "252"/\$.cds.)	USPAT	OR	OFF	2005/03/19 15:41
S12	73	S11 not S4	USPAT	OR	OFF	2005/03/19 15:43
S13	111	((("3953624") or ("3960741") or ("4108764") or ("4132464") or ("4218296") or ("4592816") or ("4775478") or ("4988395") or ("5035749") or ("5252213") or ("5328805") or ("5358889") or ("5397605") or ("5399449") or ("5422207") or ("5472616") or ("5478681") or ("5496590") or ("5518628") or ("5525315") or ("5543182") or ("5604072") or ("5604080") or ("5662872") or ("5677450") or ("5679766") or ("5759917") or ("5807493") or ("5824601") or ("5858645") or ("5876882") or ("6017432") or ("6033993") or ("6063306") or ("6139762") or ("6162739") or ("6190237") or ("6251249") or ("6268323") or ("6290580") or ("6355075") or ("6361712") or ("6372050") or ("6372410") or ("6406611") or ("6413923") or ("6426020") or ("6436834") or ("6447371") or ("6447563") or ("6451413") or ("6468913") or ("6555477") or ("6558902") or ("6565619") or ("6569251") or ("6585826") or ("6585909") or ("6607696") or ("6620037") or ("6624070") or ("6624384") or ("6627550") or ("6680273") or ("6693046") or ("6713440") or ("6737287") or ("6740589") or ("6812156") or ("6821309") or ("6825155") or ("6867148") or ("5977041") or ("6419755") or ("6231678") or ("4623399") or ("6310020") or ("5221362") or ("5093140") or ("Re31779") or ("4828912") or ("6410494") or ("6514921") or ("4084747") or ("5234703") or ("5073622") or ("4855069") or ("5364650") or ("4209418") or ("6143705") or ("5143720") or ("5078967") or ("4975217") or ("5512309") or ("5460802") or ("4810405") or ("5294364") or ("6010729") or ("5558109") or ("6113963") or ("5718910") or ("5234719") or ("4276185") or ("4395304") or ("6749869") or ("6096266") or ("4330531") or ("5290361") or ("5641530") or ("5635104") or ("4478683")).PN.	USPAT	OR	OFF	2005/03/19 15:43
S14	66308	((acid adj2 mixture) or (mixture adj2 acids) or (mixture adj2 carboxylic) or (carboxylic adj acid adj mixture) or (carboxylic adj2 mixture) or (two adj acids) or (acid adj blend) or (blend adj3 acids) or (two adj3 acids))	USPAT	OR	OFF	2005/03/19 15:45
S15	114	S9 and S14	USPAT	OR	OFF	2005/03/19 15:45
S16	102	S15 not S13	USPAT	OR	OFF	2005/03/19 15:47
S17	7	((("6310020") or ("6419755") or ("6410494") or ("6514921") or ("5234703") or ("4084747") or ("RE31779")).PN.	USPAT	OR	OFF	2005/03/19 16:00
S18	16	((("6867148") or ("6033993") or ("5977041") or ("5472616") or ("6585826") or ("6419755") or ("6413923") or ("6231678") or ("6310020") or ("6162508") or ("4623399") or ("6251249") or ("5221362") or ("5518628") or ("5662872") or ("5093140")).PN.	USPAT	OR	OFF	2005/03/19 16:00
S19	21	S17 or S18	USPAT	OR	OFF	2005/03/19 16:00

Serial Number:  
10602172  
Pgpub Number:  
20040266635

Keywords:

code;korzenski;michael;december;compositions;efficiency;cleaning;polishing;semiconductor;semiconductor  
wafers;wafers;abstract;supercritical;fluid;additive;fluoro;species;primary;secondary  
amines;solvent;inhibitor;surfactant;utility;remove;post;ashing;residues;therefrom;inventors;

Class list:

134/2;510/176;510/175;134/3;8/142;134/902;134/26;438/745;134/1.3;134/42;

Int Class list:

H01L 021/00;B08B 003/00;G03F 007/42;B01D 011/00;H01L 021/302;B08B 003/04;H01L 021/461;H01L 021/312;C23G 001/02;C11D 007/50;

Special Keywords:

SCCO2;supercritical;fluoride;fluorine;trihydrogen;pyrrolidone;alcohol;boric;hydroxylamine;

Negative Keywords:

Features:

feature#1(w=300);SCCO2;supercritical carbon dioxide;supercritical CO2;super critical carbon dioxide;densified carbon dioxide;  
feature#2(w=400);supercritical;densified fluid;dense phase fluid;  
feature#3(w=200);hydrogen fluoride;hydrofluoric acid;ammonium fluoride;alkyl hydrogen fluoride;trihydrogen fluoride;triethylamine trihydrogen fluoride;ammonium fluoride;  
feature#4(w=100);triethylamine trihydrogen fluoride;  
feature#5(w=100);ammonium fluoride;  
feature#6(w=200);preferred cosolvents;pyrrolidone;NMP;DMSO;sulfolane;catechol;ethyl lactate;acetone;butyl carbitol;monoethanolamine;butyrol lactone;diglycol amine;butyrolactone;butylene carbonate;ethylene carbonate;  
feature#7(w=100);preferred alcohols;methanol;ethanol;isopropyl alcohol;IPA;isopropanol;  
feature#8(w=100);most preferred cosolvent;pyrrolidone;  
feature#9(w=100);most preferred alcohols;ethanol;isopropanol;isopropyl alcohol;  
feature#10(w=100);boric acid;boric;borate;  
feature#11(w=100);claimed surfactant;surfactant;nonionic;non-ionic;  
feature#12(w=100);claimed pressure range;psi;PSI;pressure;pressure range;range of pressure;  
feature#13(w=100);claimed temperature range;temperature;temperature range;range of temperature;  
feature#14(w=100);primary-secondary amines;hydroxylamine;ammonia;ammonium hydroxide;alkylamine;alkyl amine;dialkyl amine;dialkylamine;

Percent Features:

feature#1:96%  
feature#2:100%  
feature#3:68%  
feature#4:0%  
feature#5:15%  
feature#6:93%  
feature#7:100%  
feature#8:65%  
feature#9:100%  
feature#10:12%  
feature#11:84%

action10602172.txt

feature#12:100%  
feature#13:100%  
feature#14:53%